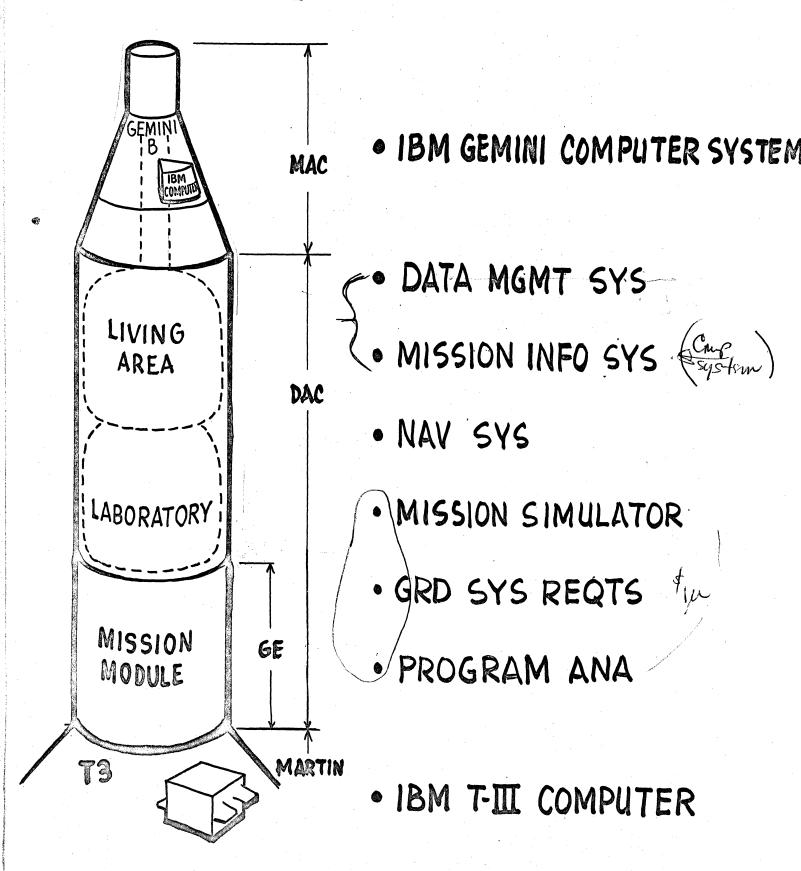
# MOL PROGRAM

#### MOL PROGRAM



## 1BM LAB VEHICLE RESPONSIBILITIES (DAC)

#### ·DATA MGMT SUBSYSTEM (DMS)

- > TELEMETRY
- DISPLAY
- > TAPE
- > SIG COND
- MULTIPLXRS
- > TELEVISION

#### · MISSION INFORMATION SYSTEM (MIS)

► COMP

> PROGRAMMING

► TAPES

► DISPLAYS

#### · NAVIGATION SUBSYSTEM

ACQ SCOPE

- ▶ STAR TRACKERS
- ► CONTROLS & DISPLAYS

#### · MISSION SIMULATOR

FLT CREW TNG

- > Instructors console → programi
- ▶ 1800 \$ 360 COMPUTER COMPLEX
- ► LV REPLICA

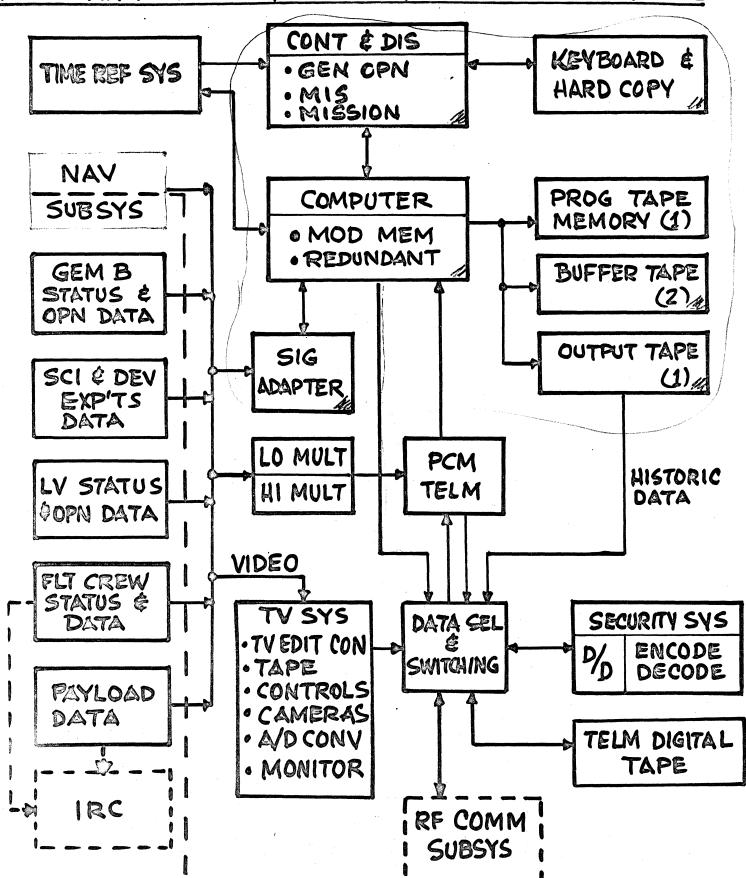
#### · GROUND SYSTEM REQUIREMENTS

> SYS INTEG REMOTE SITES, SCF. LCC, RECOVERY, MISS PAYLOAD SUPPORT CENTER

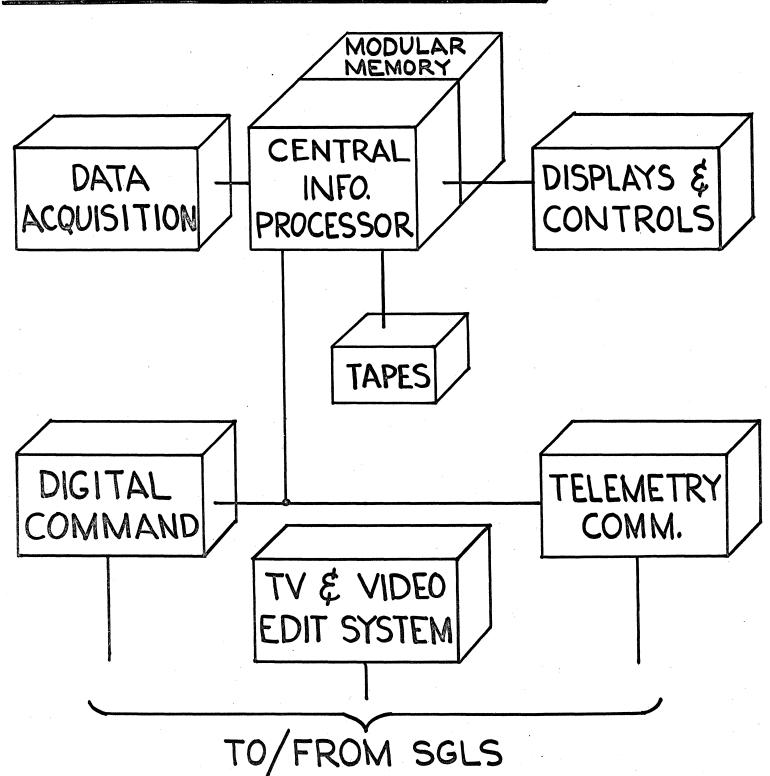
#### · PROGRAM ANALYSIS

P EXPT. FLT GROUPINGS & SCH.

#### DATA MANAGEMENT & MISSION INFO. SUBSYSTEMS



## MIS/DMS CONFIGURATION



# MIS/DMS FUNCTIONS

- · UPDATE ORBITAL POSITIONS
- · POINT SENSORS
- SEQUENCE MISSION AND VEHICLE SUBSYSTEMS
- SUBSYSTEM VALIDATION TESTING OF VEHICLE AND GEMINI
- · DATA MANAGEMENT

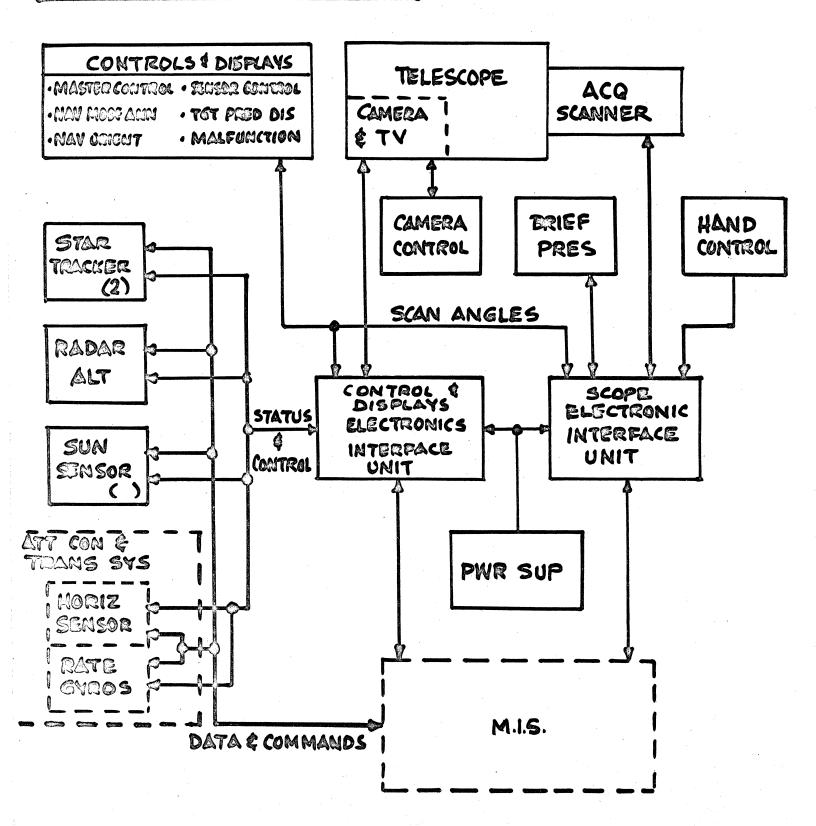
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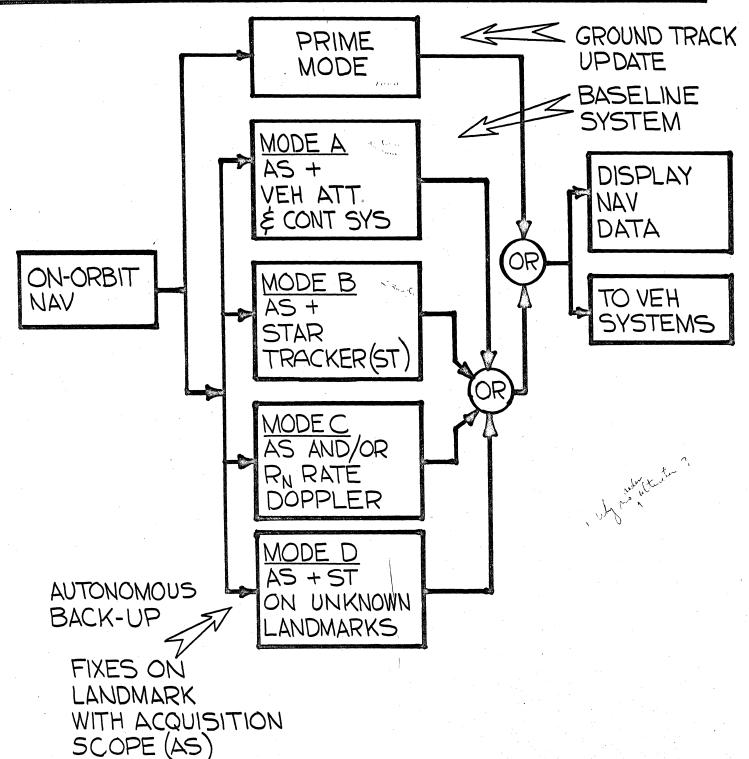
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 CONTROL AND DATA PROCESSING FOR MISSION-ORIENTED DISPLAYS

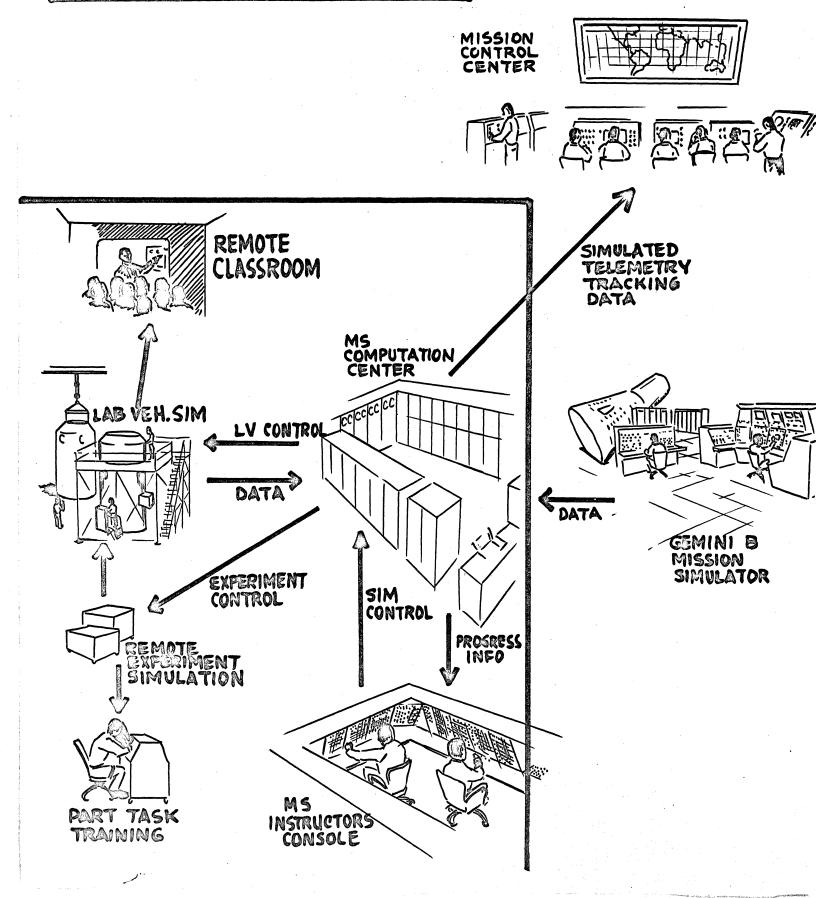
#### NAVIGATION SUBSYSTEM



#### MOL NAVIGATION CONFIGURATION STUDIES



#### MOL MISSION SIMULATOR

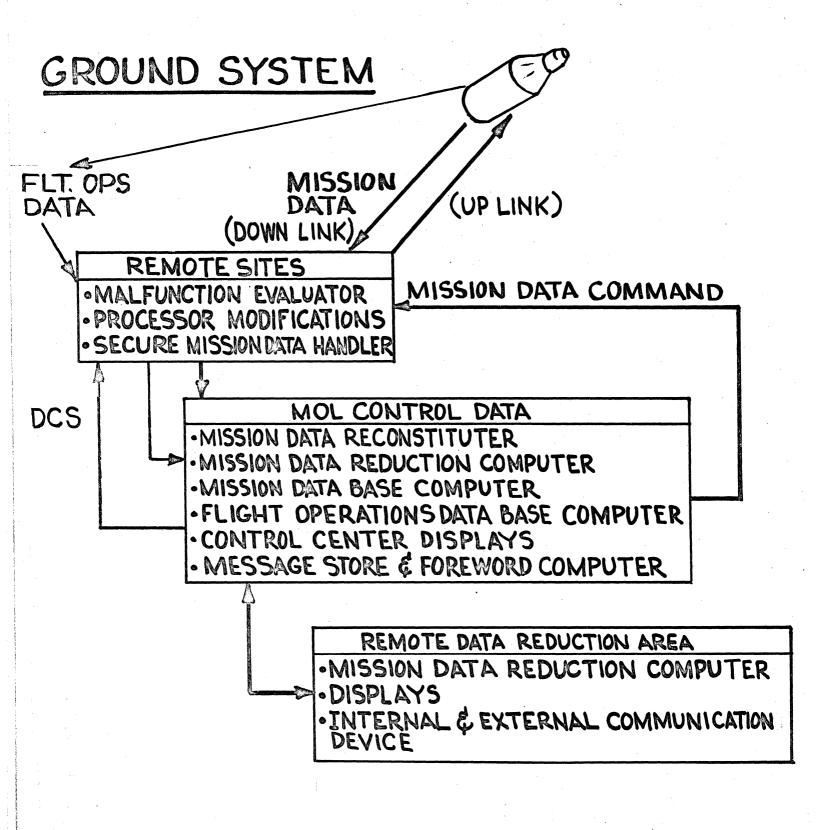


#### MISSION SIMULATOR SYSTEM FUNCTIONS

- · FLIGHT CREW TRAINING (MISSION LEVEL)
  - LABORATORY VEHICLE TOTAL
  - D GEMINI "B"
  - MISSION PAYLOADS ) MISSION
  - BASELINE DATA DEVELOPMENT
  - PROCEDURES REFINEMENT
- MOLGROUND SYSTEMS TRAINING
  - MISSION REHEARSAL
  - TAPE GENERATION
- ON-ORBIT SUPPORT
  - MAINTENANCE SUPPORT
  - » SCHEDULE REVISION
  - SYSTEM ACTIVATION AND TEST
  - » BASELINE DATA REVISION
- O POST FLIGHT EVALUATION
  - P DATA COMPARISON
  - DEBRIEFING SUPPORT

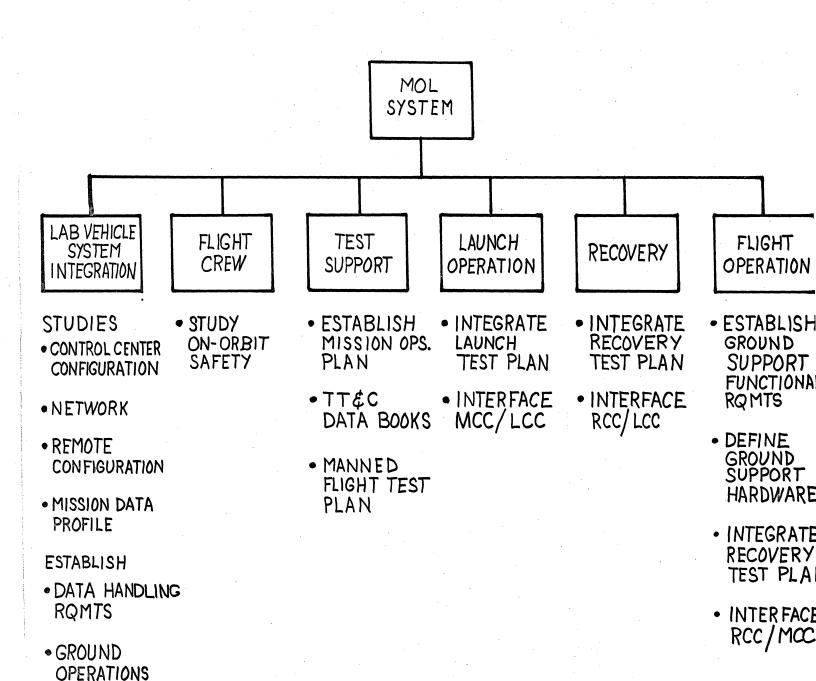
#### MISSION SIMULATOR SYSTEM FEATURES

- SSD & VANDENBURG
- CAPABLE OF RAPID TRANSITION & FLEXIBLE USAGE
- · MUST ACCOMMODATE AVE SOFTWARE
- SHOULD BE COMPATIBLE WITH 360 TO FACILITATE FLEXIBILITY, RELIABLE OPERATION
- · MUST BE COMPATIBLE WITH MOL MCC



#### GROUND SYSTEM - CDP TASKS

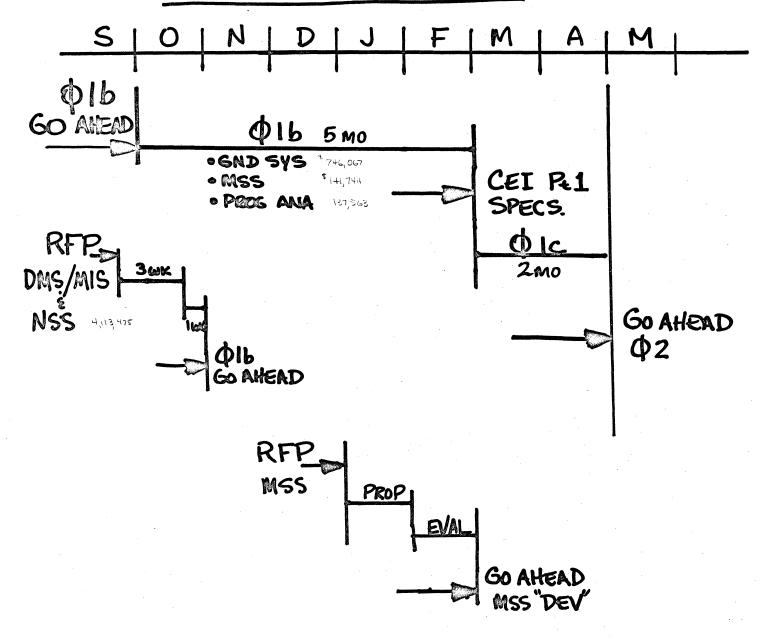
**RQMTS** 



#### PROBLEMS

- 1. GE'S ROLE & RESPONSIBILITY
  - · MISSION PAYLOAD REGITS UNKNOWN
  - PTS RELATION TO PAYLOAD SENSORS
- 2. MOL (417) COMPUTER STATUS
  - SCHEDULE -
  - · TECHNOLOGY (FLAT PACK VS NGT)
  - · OFF SHELF QUALIFICATION
  - · PRICING
- 3. MANPOWER AVAILABILITY
- 4. FIXED PRICE PROPOSAL \$2 with of your white
- 5. RELIABILITY VS INFLT MAINTENANCE

#### CONTRACT DEFINITION PHASE SCHEDULE



3 COM 12 12 12 12 12 10 5 5 KM

# MAJOR MOL PROGRAM ACTIVITIES

- 1. PROPOSAL ON DMS/MIS RFP 25 SEPT
- 2. PROPOSAL ON NSS

RFP 25 SEPT

- 3. STAFF & PERFORM WORK ON GND SYSTEMS, MSS, & PROG. AWA. 1 OCT GO AHEAD!
- 4. PROPOSAL ON MSS

REP I JAN'66

5. STUDY É PROPOSAL ON GEMINI B 165.

6. PLANTER DE LA

# BASIC STRATEGY

- 1. DON'T REINVENT THE SYSTEM IBM/TAC DEFINED & PROPOSED (AF DIRECTION)
- 2. PLACE EMPHASIS ON \$2 NOT \$16
- 3. STRESS ABILITY TO RECOVER TIME LOST BY COMPETION UNIQUE TO IBM
- 4. SYSTEMS APPROACH TO AIR AND GND DATA MANAGEMENT ONE COMPANY IBM.
- 5 BID LOWEST COST COMPUTER TO MEET SPEC BUT HIGHLIGHT 414 GROWTH & PERF. NEED. VIA SUPPLEMENTARY PROPOSAC.
- 6. SHOW TECH, MGMT & COST SAVING FROM ONE COMP. RESP FOR DMS/MIS & NSS.
- 7. STRESS KNOWLEDGE OF GEMINI & TEIT EQUIPMENT É INTERFACES
- 8. EXPLOIT OUR EXISTING CONTRACTS ON MSS, PRUG ANA È GND SYS

#### THE COMPETITION

# DMS/MIS

- STL SGLS
- · HUGES BAC MOLTEMMATE
- · GE (?) MOL PRIME COMPET. & ASSOC. NOW
- · LOCKHEED " "
- · LITTON COMPUTER L304,5 \$ 6
- · SPERRY -

#### NSS

- · AUTONETICS SSGS WORK & APOLLO NAU.
- . HUGHES P-8 AF CONTRACT
- STL SSGS WORK
- · SPERRY "
- · GE MOL PRIME & ASSOC. NOW

#### MSS

· LINK - DAC CONTRACT \$ IN \$ 16.